Claims

1. A method of producing L-prolyl-L-m-sarcolysyl-L-p-fluorophenylalanine, a lower alkyl ester and/or acid addition salts thereof, wherein L-p-fluorophenylalanine with a protected carboxyl group is caused to react with L-m-sarcolysine with a protected amino group and an activated carboxy group, L-m-sarcolysyl-L-p-fluorophenylalanine with a protected amino group and with a protected carboxy group being obtained, and subsequently the amino protection group is removed, afterwards the obtained L-m-sarcolysyl-L-p-fluorophenylalanine with a protected carboxy group is caused to react with proline with a protected amino group and an activated carboxy group, L-prolyl-L-m-sarcolysyl-L-p-fluorophenylalanine with a protected amino group being obtained, and the amino protection group being removed, and the lower alkyl ester group being optionally removed or converted into another ester group and/or the compound obtained being converted into an acid addition salt.

2. The method according to claim 1, wherein the condensation is carried out with cooling in an anhydrous medium, e.g. in chloroform.

3. The method according to claim 1 or 2, wherein the activated carboxy groups were activated through treatment with dicyclohexylcarbodiimid.

4. The method according to one of the claims 1 to 3, wherein the carboxy protection group of L-p-fluorophenylalanine is a lower alkyl ester group, preferably an ethyl ester group.

5. The method according to one of the claims 1 to 4, wherein the amino protection group of the L-m-sarcolysine is a carbobenzoxy group.

6. The method according to one of the claims 1 to 5, wherein the removal of the amino protection group of the L-m-sarcolysyl-L-p-fluorophenylalanine with a protected amino group is carried out through treatment with hydrogen bromide in glacial acetic acid.

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7. The method according to one of the claims 1 to 6, wherein the removal of the amino protection group of the L-prolyl-L-m-sarcolysyl-L-p-fluorophenylalanine with a protected amino group < *is carried out*> through reduction with hydrogen in the presence of palladium on carbon.

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